



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

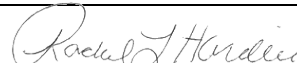
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DATA MATRIX

Date: November 6, 2020	EPA Reg. No./ File Symbol: 64744-XX	Page 1 of 5
Applicant's/Registrant's Name and Address: Spiess-Urania Chemicals GmbH C/O Wagner Regulatory Associates, Inc. P.O. Box 640, 7217 Lancaster Pike, Suite A Hockessin, DE 19707	Product: Basic Copper Carbonate	
Ingredient: Basic Copper Carbonate (PC Code 22901)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC					
830.1550, 830.1600	Product identity, composition/Description of materials Used to Produce the Product	51318401	SPIESS-URANIA CHEMICALS GMBH	OWN	
830.1620	Description of Production Process	51318401	SPIESS-URANIA CHEMICALS GMBH	OWN	
830.1670	Discussion of Formation of Impurities	51318401	SPIESS-URANIA CHEMICALS GMBH	OWN	
830.1700	Preliminary Analysis	51318402	SPIESS-URANIA CHEMICALS GMBH	OWN	
830.1750	Certification of Limits	51318401	SPIESS-URANIA CHEMICALS GMBH	OWN	
830.1800	Enforcement Analytical Method	51318402	SPIESS-URANIA CHEMICALS GMBH	OWN	
830.6302	Color	51318403	SPIESS-URANIA CHEMICALS GMBH	OWN	
830.6303	Physical State	51318403	SPIESS-URANIA CHEMICALS GMBH	OWN	
830.6304	Odor	51318403	SPIESS-URANIA CHEMICALS GMBH	OWN	
830.6313	Stability to Normal & Elevated Temperatures	43363805	COPPER SULFATE TASK FORCE	OLD	
830.6314	Oxidation/Reduction	51318408	SPIESS-URANIA CHEMICALS GMBH	OWN	
830.6315	Flammability	51318408	SPIESS-URANIA CHEMICALS GMBH	OWN	
830.6316	Explosibility	51318408	SPIESS-URANIA CHEMICALS GMBH	OWN	
830.6317	Storage Stability	51318408	SPIESS-URANIA CHEMICALS GMBH	OWN	
830.6319	Miscibility	51318408	SPIESS-URANIA CHEMICALS GMBH	OWN	
830.6320	Corrosion Characteristics	51318408	SPIESS-URANIA CHEMICALS GMBH	OWN	
830.6321	Dielectric Voltage Breakdown	51318408	SPIESS-URANIA CHEMICALS GMBH	OWN	
830.7000	pH	51318405	SPIESS-URANIA CHEMICALS GMBH	OWN	
830.7050	UV/Visible Absorption	43363805	COPPER SULFATE TASK FORCE	OLD	
830.7100	Viscosity	51318408	SPIESS-URANIA CHEMICALS GMBH	OWN	
830.7200, 830.7220	Melting Point/Boiling Point	51318407	SPIESS-URANIA CHEMICALS GMBH	OWN	
830.7300	Relative Density	51318407	SPIESS-URANIA CHEMICALS GMBH	OWN	
830.7370	Dissociation Constant	51318408	SPIESS-URANIA CHEMICALS GMBH	OWN	
830.7520	Particle Size Distribution	51318401	SPIESS-URANIA CHEMICALS GMBH	OWN	

Signature 	Name and Title Rachel L Hardie, Agent	Date November 6, 2020	1
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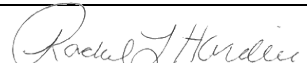
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7550, 830.7560, 830.7570	Octanol Water Partition Coefficient	51318408	SPIESS-URANIA CHEMICALS GMBH	OWN	
830.7840, 830.7860	Solubility	51318405 51318406	SPIESS-URANIA CHEMICALS GMBH SPIESS-URANIA CHEMICALS GMBH	OWN OWN	
830.7950	Vapor Pressure	51318408	SPIESS-URANIA CHEMICALS GMBH	OWN	
870.1100	Acute Oral Toxicity	51318409	SPIESS-URANIA CHEMICALS GMBH	OWN	
870.1200	Acute Dermal Toxicity	51318410	SPIESS-URANIA CHEMICALS GMBH	OWN	
870.1300	Acute Inhalation Toxicity	51318411	SPIESS-URANIA CHEMICALS GMBH	OWN	
870.2400	Primary Eye Irritation	51318412	SPIESS-URANIA CHEMICALS GMBH	OWN	
870.2500	Primary Dermal Irritation	51318413	SPIESS-URANIA CHEMICALS GMBH	OWN	
870.2600	Dermal Sensitization	51318414	SPIESS-URANIA CHEMICALS GMBH	OWN	
GENERIC DATA					
835.1230	Adsorption/Desorption				Footnote 1
835.2120	Hydrolysis				Footnote 2
835.2240	Photodegradation in Water				Footnote 2
835.2410	Photodegradation in Soil				Footnote 2
835.4100	Aerobic Soil Metabolism				Footnote 2
835.4200	Anaerobic Soil Metabolism				Footnote 2
835.4300	Aerobic Aquatic Metabolism				Footnote 2
835.4400	Anaerobic Aquatic Metabolism				Footnote 2
835.6100	Terrestrial Field Dissipation				Footnote 1
SS-1086	Aquatic Leaching Study for Wood Preservatives	49286701	AMERICAN CHEMISTRY COUNCIL	PAY	
SS-1087	Leachability of Copper from Roofing Shingles	49286601	AMERICAN CHEMISTRY COUNCIL	PAY	
SS-1088	Leachability of Wood Preservatives in Soil Contact	49286701	AMERICAN CHEMISTRY COUNCIL	PAY	
850.1010	Aquatic Invertebrate Acute Toxicity				Footnote 3
850.1025	Oyster Acute Toxicity Test				Footnote 3
850.1035	Mysid Acute Toxicity Test				Footnote 1

Signature 	Name and Title Rachel L Hardie, Agent	Date November 6, 2020	2
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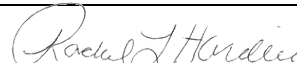
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Ingredient: Basic Copper Carbonate (PC Code 22901)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1075	Freshwater and Saltwater Fish Acute Toxicity Test				Footnote 3
850.1300	Aquatic invertebrate life-cycle				Footnote 1
850.1350	Saltwater Invertebrate Life Cycle				Footnote 1
850.1400	Fish Early Life Stage Toxicity Test				Footnote 1
850.2100	Avian Acute Oral Toxicity Test	67456 106120	BOLIDEN INTERTRADE INC BOLIDEN INTERTRADE INC	OLD OLD	
850.2200	Avian Dietary Toxicity Test	134362	BOLIDEN INTERTRADE INC	OLD	
850.2300	Avian Reproduction Test	40773101 43338001 43396301	COPPER SULFATE TASK FORCE COPPER SULFATE TASK FORCE COPPER SULFATE TASK FORCE	OLD OLD OLD	
850.3020	Honey Bee Acute Contact Toxicity	40764701 40764702	COPPER SULFATE TASK FORCE COPPER SULFATE TASK FORCE	OLD OLD	
850.3030	Toxicity of residues to honeybees				Footnote 4
850.4100	Seedling Emergence and Seedling Growth				Footnote 5
850.4150	Vegetative Vigor				Footnote 5
850.4400	Aquatic Plant Toxicity Test, <i>Lemna spp.</i>	43363601 43363602 43363603 43363604 43363605	COPPER SULFATE TASK FORCE COPPER SULFATE TASK FORCE COPPER SULFATE TASK FORCE COPPER SULFATE TASK FORCE COPPER SULFATE TASK FORCE	OLD OLD OLD OLD OLD	
850.4500	Algal Toxicity				Footnote 1
850.4550	Cyanobacteria Toxicity				Footnote 1
850.6100	Environmental Chemistry Methods and Independent Laboratory Validation	41003801 41003802 40013804 40968201	COPPER SULFATE TASK FORCE COPPER SULFATE TASK FORCE COPPER SULFATE TASK FORCE COPPER SULFATE TASK FORCE	OLD OLD OLD OLD	

Signature 	Name and Title Rachel L Hardie, Agent	Date November 6, 2020	3
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Form Approved OMB No. 2070-0060

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.3100	90-Day Oral Toxicity in Rodents	58020 75116	INNOVATIVE WATER CARE, LLC KENNECOTT COPPER CORPORATION	OLD OLD	
870.3200	21-Day Dermal – Rabbit/Rat	44127507	GRIFFIN LLC	OLD	
870.3700	Prenatal Developmental Toxicity Study	44127507 44127506 46377501 46377502	GRIFFIN LLC GRIFFIN LLC KOCIDE LLC KOCIDE LLC	OLD OLD OLD OLD	
870.3800	Reproduction and Fertility Effects				Footnote 1
870.4100	Chronic Toxicity				Footnote 1
870.4200	Carcinogenicity				Footnote 1
870.5100	Bacterial Reverse Mutation Test	85218	NUTRITION & BIOSCIENCES USA 1, LLC	OLD	
870.5300, 870.5375	In vitro mammalian gene mutation				Footnote 1
870.5385, 870.5395	In vivo cytogenetics				Footnote 1
870.6200	Neurotoxicity Screening Battery				Footnote 1
870.7485	Metabolism and Pharmacokinetics	62085	MCCALL CHEMICAL CO. OF CANADA, LTD.	OLD	
875.1100	Dermal Exposure Outdoor				Footnote 1
875.2100	Foliar Dislodgeable Residue Dissipation				Footnote 1
875.2400	Dermal Exposure	51746	GRIFFIN LLC	OLD	
SS-1253	Honey Bee Chronic Larval				Footnote 4
SS-1254	Honey Bee Chronic Adult				Footnote 4
SS-1255	Honey Bee Acute Larval				Footnote 4

Signature

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Date

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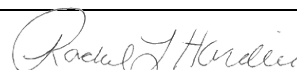
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860.1300	Nature of Residue – Plants, Livestock				Footnote 6
860.1340	Residue Analytical Method				Footnote 6
860.1380	Storage Stability Data				Footnote 6
860.1480	Meat/Milk/Poultry/Eggs				Footnote 6
860.1500	Crop Field Trials				Footnote 6
860.1520	Processed Food/Feed				Footnote 6
860.1850	Confined Accumulation in Rotational Crops				Footnote 6

Footnotes:

1. As per USEPA RED for Coppers, May 2009, no data has been submitted. EPA has not required these studies through data call-in either. Therefore, it is requested that this requirement be waived.
2. Not applicable: Copper is an element and will not be affected by these processes; thus these studies are not required. (USEPA RED for Coppers, May 2009)
3. No existing data submitted to EPA. – The Agency used the Biotic-Ligand Model (Windows Version 2.0.0, 4/13) to assess exposure and toxicity to potentially exposed organisms. (USEPA RED for Coppers, May 2009) Therefore, it is requested that this data requirement be waived.
4. The main exposure route for pollinators to be exposed from antimicrobial uses would be through treated wood products. Since copper is practically non-toxic to honeybees on an acute basis ($LD_{50} > 100 \mu\text{g ai/bee}$), the risk is expected to be negligible for antimicrobial use patterns (USEPA Coppers: Ecological Risk Assessment and Effects Determination for Registration Review, June 2016). It is therefore requested that the Agency waive this requirement.
5. No data is required for seedling emergence or vegetative vigor are required, as it appears unlikely that copper would pose a risk to terrestrial plants (USEPA RED for Coppers, May 2009). Therefore, it is requested that the Agency waive this requirement.
6. Product is not registered for food use and therefore these data are not needed.

Signature 	Name and Title Rachel L Hardie, Agent	Date November 6, 2020	5
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